

Paper Id: 910023Roll No: 

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**B PHARM**  
**(SEM II) THEORY EXAMINATION 2019-20**  
**PHARMACEUTICAL ORGANIC CHEMISTRY**

Time: 3 Hours

Total Marks: 75

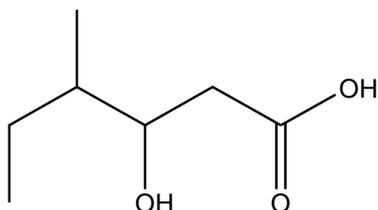
Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

**SECTION A**

**1. Attempt all questions in brief**

10 x 2 = 20

- a) Write the chemical structure & uses of succinic and oxalic acid
- b) Define benzoin condensation reaction
- c) Give identification test of aldehydes and alcohol
- d) Differentiate between E<sub>1</sub> and E<sub>2</sub> reaction
- e) Write the two examples and uses of aliphatic amines
- f) Give the IUPAC name of



- g) Discuss uses of vanillin and cinnamaldehyde
- h) Give free radical reactions of alkenes
- i) Give the IUPAC name of following compound-: CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>COOH
- j) What are electrophile and nucleophile?

**SECTION B**

**2. Attempt any two parts of the following:**

2 X 10 = 20

- a) What are SN<sub>1</sub> and SN<sub>2</sub> reactions. Discuss the kinetics, mechanism and factors affecting the SN<sub>1</sub> and SN<sub>2</sub> reactions
- b) Write about vanillin and benzaldehyde.
- c) Give short notes on cannizaro reaction and aldol condensation.

**SECTION C**

**3. Attempt any five parts of the following:**

7 X 5 = 35

- a) Define ozonolysis.
- b) Write the structure and uses of chloroform and trichloroethylene.
- c) Explain diels alder reaction with mechanism.
- d) Explain with examples markownikoffs rule.
- e) Write about basicity of aliphatic amines and factors affecting it.
- f) What is isomerism?. Discuss various type of structural isomerism with examples.
- g) Define Nomenclature of organic compounds with examples..